

WHAT IS CLAIMED IS:

1. An ink jet recording element comprising a support having thereon a porous image-receiving layer comprising particles, a poly(vinyl alcohol) binder and a crosslinking agent, said particles having a primary particle size of from about 7 to about 40 nm in diameter which may be aggregated up to about 300 nm, and said crosslinking agent being present in an amount of at least about 20 weight % of said poly(vinyl alcohol) binder.

2. The recording element of Claim 1 wherein said crosslinking agent is present in an amount of at least about 40 weight % of said poly(vinyl alcohol) binder.

3. The recording element of Claim 1 wherein said crosslinking agent is present in an amount of at least about 50 weight % of said poly(vinyl alcohol) binder.

4. The recording element of Claim 1 wherein said crosslinker is an aldehyde, an acetal or a ketal.

5. The recording element of Claim 1 wherein said crosslinker is 2,3-dihydroxy-1,4-dioxane.

6. The recording element of Claim 1 wherein said support is polyethylene-coated paper.

7. The recording element of Claim 1 wherein said image-receiving layer also contains a mordant.

8. The recording element of Claim 1 wherein the weight ratio of said binder to said particles is from about 1:20 to about 1:5.

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9. The recording element of Claim 1 wherein said particles are metallic oxides.
10. The recording element of Claim 1 wherein said particles are porous.
11. The recording element of Claim 9 wherein said particles are fumed.
12. The recording element of Claim 11 wherein said fumed metallic oxide particles are fumed alumina, fumed silica or cationic fumed silica.
13. The recording element of Claim 11 wherein said particles are fumed alumina.

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